MAIL CHARACTERISTICS STUDIES (Public Version)

I. PREFACE

A. Purpose and Content

USPS-FY13-14 documents the development of a number of volume and parameter estimates used in the preparation of the 2013 ACR. The section titled "RPW by Shape and Indicia" describes the development of revenue, piece and weight estimates by shape and indicia. Standard Mail and First-Class Mail estimates by weight increment are also developed. The "Mail Characteristics" section describes the development of preparation and entry characteristics for Standard Mail flats and letters, and for Periodicals flats. The re-calibration of the First-Class Mail Characteristics Study (Docket No. R2006-1, LR-L-32) is also described in the "Mail Characteristics" section. The "Coverage Factor Updating" section describes the methodology used to update coverage factor parameters for the flats mail processing models.

The methodology is not changed from Docket No. ACR2012, however numerous additional rate elements have been introduced since Docket No. ACR2012, such as Standard High Density Plus and First Class DVD mailers. In this analysis the mapping of these new categories follows mappings used in the RPW report.

B. Predecessor Documents

USPS-FY12-14, Docket No. ACR 2012, USPS-FY11-14, Docket No. ACR 2011 USPS-FY10-14 in Docket No. ACR2010, USPS-FY09-14 in Docket No. ACR2009, USPS-FY08-14 in Docket No. ACR2008, USPS-FY07-14 filed in Docket No. ACR2007, and Docket No. R2001-1, USPS-LR-J-63 for Density Study

C. Corresponding Non-Public Document

USPS-FY13-NP25

D. Methodology

1. RPW by Shape and Indicia

i. Introduction

Official estimates of revenue, pieces, and weight for First-Class Mail, Periodicals, and Standard Mail are developed by the Revenue, Volume, and Performance Measurement group. The primary data sources for those estimates are the Corporate Business Customer Information System (CBCIS) and the domestic ODIS/RPW sample. The CBCIS draws input from the PostalOne! bulk mail acceptance system. These data sources are also used in this analysis, but the methods used here are somewhat different. The methodology here focuses on

the distribution of mail activity by shape. Such distributions are not computed in the official estimates. Since the input data are the same and the methodologies are similar, there is general consistency between the official estimates and those reported here. The similarity of the methods employed here are functionally identical to those used by the Revenue, Volume and Performance Measurement group since the methodology approved in Commission Order No. 354 in Docket No. RM2009-7. As a point of emphasis, the estimates reported here are used only as relative percentages to distribute the official estimates across mail characteristics. No methodological changes have been made since Docket No. ACR 2012.

ii. Methodology Overview for Presort Mail

Estimates of revenue, pieces, and weight by shape for presort First-Class Mail, Periodicals, and Standard Mail (and weight increment for First-Class Mail and Standard Mail) are based on postage statement data from the PostalOne! bulk mail entry system. These estimates form distribution keys to be applied to the reported RPW estimates. Not all Post Offices report through the PostalOne! system. First-Class Mail, Periodicals, and Standard Mail data obtained through the PostalOne! system are stratified by Post Office size and inflated to represent all mail in these classes.

The PostalOne! system is used to record and verify postage at many bulk mail acceptance locations. The system records revenue, pieces, and weight by individual rate elements, which are identified by a five digit numeric code. These codes are referred to as Volume Information Profile (VIP) codes. VIP code information is available for each postage statement submitted at PostalOne! equipped offices. The postage statement also includes the processing category, which is used to determine the shape of all pieces within a transaction.

In Standard Mail, piece and weight information for each VIP code is used to determine the weight increment of the pieces. The average weight of the VIP code within the transaction is used to assign the weight increment.

As mentioned above, the PostalOne! system does not report data for all bulk-entered mail. The non-PostalOne! offices are small relative to PostalOne! offices in terms of total revenue from bulk-entered mail. Non-PostalOne! offices are represented by PostalOne! offices of similar size. (PostalOne! offices that show wide volume swings during the year are not used to represent non-PostalOne! offices.) This general stratification scheme is used for First-Class Mail, Periodicals, and Standard Mail.

Offices are ranked by an appropriate revenue variable, dependent on the class of mail. (See each class description below). After offices are ranked, they are grouped into strata of similar revenue size. There is an independent stratification of offices for First-Class Mail, Periodicals In-County, Periodicals Outside County, Standard Mail regular, and Standard Mail nonprofit. The total revenue in each stratum is computed from the Trial Balance, the PostalOne! system, and/or

estimation methods. The total revenue includes revenue from both PostalOne! and non-PostalOne! system offices.

Once the strata are determined, the PostalOne! office data within each stratum are inflated to the stratum revenue total. The inflated data are then summed across strata to provide estimates for the class or subclass by rate element. The estimates are used to form distribution keys and applied to the official RPW estimates.

iii. Post Office Stratification

a. Overview

In each mail class, the map of Post Office to stratum is defined using a hybrid year's worth of revenue data – FY2012 Q4 through FY2013 Q3. Each year new Post Offices are added to the PostalOne! system. Offices may begin reporting data any time in the year. It is not possible to determine the office size based on part-year data. Generally, new reporting offices are small. In each class, newly reporting offices are assigned to the smallest stratum.

In the stratification process for each class, Post Office revenue excludes U. S. Government mail. Government mail is measured separately, and is not inflated or controlled. This estimate of government activity is added to the final estimates of non-government activity.

b. First-Class Mail

A specific variable is chosen to rank Post Offices by size so that strata may be defined. The most appropriate variable for this purpose would be total First-Class Mail presort revenue. Unfortunately, one segment of this amount, metered and stamped presort revenue at non-PostalOne! offices, is not available in any data source. Metered and stamped revenue accounts in the Trial Balance cover all mail classes and do not distinguish First-Class Mail presort revenue. The ranking and stratification for First-Class Mail therefore is accomplished in multiple steps. First, PostalOne! offices are ranked by the sum of PostalOne! system permit imprint presort revenue plus PostalOne! system metered and stamped presort revenue. PostalOne! offices are then divided into 8 revenue size strata.

Next, average permit imprint revenue within each stratum is computed across PostalOne! offices. These averages are used to assign non-PostalOne! offices to strata. Each non-PostalOne! office is assigned to the stratum that has the PostalOne! average permit imprint revenue closest to its own Trial Balance permit imprint revenue.

c. Periodicals

Since all Periodicals publications use permit imprints, permit imprint revenue reported in the Trial Balance is used to rank offices. These data are available for both PostalOne! and non-PostalOne! offices.

Two separate stratification schemes are developed for Periodicals—one for Outside County and another for In-County rates. In-County and Outside County revenues are reported separately in the Trial Balance. Offices are ranked from largest to smallest revenue and allocated to 6 office size strata for Outside County and 8 office size strata for In-County rates.

d. Standard Mail

Over 94 percent of Standard Mail revenue is submitted via permit imprint. Due to the small effect of metered and stamped mail, all offices are ranked and stratified based on Trial Balance permit imprint revenue. A separate ranking and stratification is made for regular and nonprofit subclasses. Offices are stratified in each subclass into 7 revenue strata.

iv. Postage Statement Data Processing

Transaction records from the PostalOne! system are aggregated into a set of arrays by month. Each record is checked for internal consistency with respect to published rates and weight limits. The arrays contain revenue, pieces (also copies for Periodicals), and weight, indexed by the rate category of mail, the stratum of the office where the mail was entered, the processing category (letters, flats, or parcels), the indicia (permit imprint or metered and stamped), and weight increment for Standard Mail. These arrays reduce the large quantity of transaction level data to the minimum detail required to produce the final estimates.

v. Inflation Process

For all classes, the PostalOne! transactions in each stratum are inflated based on the total revenue in each stratum. The computed revenue control factor is applied to pieces and weight data as well, while maintaining the full array of detail on rate element and other characteristics. Final results are computed by summing the inflated strata results over all strata.

The revenue control in each stratum is developed separately for permit imprint revenues and metered and stamped revenues for First-Class Mail and Standard Mail. Periodicals has no metered and stamped revenue. Permit imprint revenues are reported individually by class and Post Office in the Trial Balance. There is general consistency between Trial Balance permit imprint revenues and PostalOne! system revenues. For the permit imprint portion of the revenue control, Trial Balance permit imprint revenues are used.

The Trial Balance does not uniquely identify metered and stamped revenue resulting from bulk transactions. These revenues are reported together with metered and stamped revenue for many mail classes. As such, the Trial Balance cannot be used for the metered and stamped portion of the revenue control. At PostalOne! offices, the metered and stamped portion of the revenue control

comes directly from the PostalOne! system. At non-PostalOne! offices the metered and stamped portion is estimated.

vi. Estimating Metered and Stamped Revenue at Non-PostalOne! Offices

Metered and stamped revenue estimates at non-PostalOne! offices are obtained using revenue ratios constructed from PostalOne! office revenue and Trial Balance revenue. First-Class Mail and Standard Mail ratios are constructed for each stratum by each Postal quarter. The numerator of the ratio is metered and stamped revenue for a given class of each PostalOne! office in the stratum. This value comes from the PostalOne! system. The denominator of the ratio is Trial Balance metered and stamped revenue for all mail classes for the same PostalOne! offices in the stratum. The ratio is an estimate of the share of all metered and stamped revenue in the stratum that is of that particular class of mail. The estimated metered and stamped revenue of each non-PostalOne! office in the stratum is computed by multiplying their Trial Balance metered and stamped revenue by the stratum revenue ratio.

vii. First-Class Mail Single Piece Mail

Single piece estimates by shape and indicia are needed for First-Class Mail. Single piece input data come from the domestic ODIS/RPW sample data files. These data files include the proper sample inflation factors for each mail piece. All records are inflated using these factors and aggregated to mail category code, shape, and indicia.

vii. Revenue, Piece, and Weight Estimates by Mail Characteristics

a. First-Class Mail

For First-Class Mail, in each quarter, the presort estimates by shape are controlled to revenue, pieces, and weight as reported in the RPW system for each RPW mail category. Single piece volume and weight estimates by indicia are controlled to RPW single piece estimates.

b. Periodicals

The Periodicals control to RPW is more elaborate due to the piece, weight, and discount portions of the rate structure. Pieces from the piece portion and weight from the weight portion are controlled to RPW pieces and weight, respectively. These same factors are applied to piece portion revenue and weight portion revenue, respectively. These adjusted piece and weight portion revenues plus the revenue discounts are then controlled to the RPW revenue total. Piece portion copies are controlled by the same factor as pieces. Weight portion copies are then controlled to these resulting piece portion copies. Lastly, piece portion weight is controlled to weight portion weight.

c. Standard Mail

The results of the inflation procedure for Standard Mail transactions in the PostalOne! system are used to develop shape and weight increment distribution

keys for each rate element. Keys are developed by Postal quarter, for each of revenue, pieces, and weight. The distribution keys for two small rate categories, Standard Mail paid at First-Class Mail rates and Standard Mail paid at Priority Mail rates, are developed from the First-Class Mail and Priority Mail transactions, respectively. The First-Class Mail estimation procedure is described above. The Priority Mail distribution keys are derived from the uninflated Priority Mail PostalOne! transactions.

2. Mail Characteristics Studies

i. Periodicals

a. Stratification

Publications are stratified by size and density using the PostalOne! system mailing statement data. The PostalOne! system data are aggregated by unique six-digit USPS Publication Number, and a database of pieces by rate element and USPS number is constructed. The database is then used to stratify USPS data into 30 strata based on size, density, and use of pallets for the publication number.

The size variable used in the stratification is total Periodicals volume (In-County and Outside County) divided by the publication frequency reported on Form 3526. The stratification variables used to capture mailing density are the proportion of pieces in the mailing paying 5-Digit, Carrier Route, High Density, and Saturation rates, and the proportion of pieces receiving DDU, DSCF, and DADC entry discounts. Based on these variables, publications are divided into five size, two presort, and two entry categories. The five size categories are:

- 0 to 5,000 pieces
- 5001 to 15,000 pieces
- 15,001 to 100,000 pieces
- 100,001 to 300,000 pieces
- Over 300,000 pieces.

The two presort categories are:

- High Density - Publications with 30 percent or more of the pieces paying 5-Digit, Carrier Route, High Density, or Saturation rates
- Low Density - Publications with less than 30 percent of the pieces paying 5-Digit, Carrier Route, High Density, or Saturation rates.

The two entry categories are:

- High Drop - Publications with 50 percent or more of the pieces receiving DDU, DSCF, and DADC entry discounts
- Low Drop - Publications with less than 50 percent of the pieces receiving DDU, DSCF, and DADC entry discounts.

Within Periodicals, some publications prefer the use of sacks over the use of pallets for a variety of reasons such as the perception of better service in sacks. To account for these different preferences, use of pallets is an additional stratification variable.

The use of these four stratification variables generates 40 possible strata. Some cells are populated with few or no publications. This is particularly true of low-density – high drop-ship cells. For this reason, the low-density strata are collapsed across the entry variable to create 30 strata.

b. Data Sources

Data for this study come from Mail.dat files collected through the PostalOne! electronic verification system between October 2012 and September 2013.

Raw Mail.dat files are summarized into three databases, a piece database, bundle database, and container database. The fields recorded in the piece database are:

- Publication ID
- Shape
- Container type (pallet, sack, tray type, loose bundle)
- Container presort level
- Container entry facility type
- Parent container status
- Parent container presort level
- Parent container entry facility
- Piece machinability
- Package (bundle) presort level
- Entry discount given
- Presort rate given
- Number of copies
- Number of pieces
- Weight of pieces.

The fields recorded in the package database are:

- Publication ID
- Shape
- Container type (pallet, sack, tray type, loose bundle)
- Container presort level
- Container entry facility type
- Parent container status
- Parent container presort level
- Parent container entry facility
- Package (bundle) presort level
- Number of packages (bundles)
- Number of barcoded pieces
- Number of non-barcoded pieces
- Number of barcoded copies
- Number of non-barcoded copies

- Weight of barcoded pieces
- Weight of non-barcoded pieces.

The fields recorded in the container database are:

- Publication ID
- Shape
- Container type (pallet, sack, tray type, loose bundle)
- Container presort level
- Container entry facility type
- Parent container status
- Parent container presort level
- Parent container entry facility
- Container size category
- Number of containers
- Number of pieces
- Weight

The information for all but the entry facility type is taken directly from the information recorded in the Mail.dat. The entry facility type is determined using the container entry point ZIP Code, the container destination ZIP Code, and the labeling lists from the Domestic Mail Manual. Each entry point is mapped to a facility, and then the facility type (SCF, ADC, or NDC) is determined. The destination ZIP Code is then compared with the service territory of the entry facility using the DMM labeling lists to determine the entry facility type (OAO, OSCF, OADC, ONDC, DNDC, DADC, DSCF, or DDU). For containers entered on parent pallets, the presort level of the parent container is used to determine the entry point of the child container. For example, a 5-Digit sack that resides on an SCF parent pallet will have the entry facility type of DSCF because the sack will first be handled as a sack at the DSCF.

c. Estimation

Publications for which data are available are treated as if they were randomly drawn with a probability of selection proportional to annual volume. Then data are weighted by the inverse of the probability that the publication was selected.[1] Weighting publications as if randomly drawn serves to reduce bias caused by the self selection of publications into eVS sites. Data in the piece database are weighted by the ratio of annual volume to sample volume by publication. All data from the piece table are aggregated by strata, shape, presort rate, and piece preparation attribute. The piece preparation attribute is a list of preparation and piece characteristics that includes container type, container presort level, container entry facility type, parent container type, parent container level, parent container entry facility type, bundle presort level and piece machinability. The list of possible values for measured characteristics is presented below.

[1] W. G. Cochran, *Sampling Techniques (1977).*

- Container type
  - Pallet
  - Sack
  - 1 foot tray
  - 2 foot tray
  - EMM tray
  - Other/unidentifiable tray
  - Loose bundle
- Container Level
  - CR
  - 5-Digit CRTS
  - 5-Digit
  - 3-Digit
  - SCF
  - FSS Scheme
  - FSS Facility
  - ADC
  - Mixed ADC
- Container entry facility
  - OAO
  - OSCF
  - OADC
  - ONDC
  - DNDC
  - DADC
  - DSCF
  - DDU
- Parent container type
- Parent container level
  - CR
  - 5-Digit CRTS
  - 3-Digit CRTS
  - 5-Digit
  - 3-Digit
  - SCF
  - ADC
  - Mixed ADC
  - NDC
  - Mixed-NDC
- Parent container entry facility
  - OAO
  - OSCF
  - OADC
  - ONDC
  - DNDC
  - DADC
  - DSCF

    - DDU
- Bundle level
    - Firm
    - Saturation
    - High Density
    - Carrier Route Basic
    - FSS
    - 5-Digit
    - 3-Digit
    - ADC
    - Mixed ADC
- Piece machinability type
    - AFSM 100 Flat
    - UFSM 1000 Flat
    - Manual Flat
    - Letter

Within presort rate and strata, the distribution across preparation attributes is then calculated. These distributions are weighted together using the PostalOne! volume by shape, presort rate and stratum. The result is then summed across strata to produce estimates of piece volume by preparation characteristic.

Bundle data are weighted by the ratio of annual volume by publication to sample volume by publication. Data are weighted by the inverse of the probability of selection. Bundle counts, pieces counts and weight from the bundle database are aggregated by strata and bundle attribute (container type, container level, container entry facility type, bundle level, and shape). The piece estimates by strata and bundle attribute are used to weight bundle counts, pieces and weight by strata. Weighted values are then summed across strata to generate national estimates of average bundle size (number of pieces per bundle) and average weight by bundle characteristic.

Container data are weighted by the ratio of annual volume by publication to sample volume by publication. Data are weighted by the inverse of the probability of selection. Container counts, pieces counts and weight from the container database are aggregated by strata and container attribute (container type, container level, container entry facility type, and shape). The piece estimates by strata and container attribute are used to weight container counts, pieces and weight by strata. Weighted values are then summed across strata to generate national estimates of average container size (number of pieces per container) and average weight by container characteristic.

ii. Standard Mail

a. Stratification

Standard Mail transactions are stratified by size, density and entry characteristic using the PostalOne! system mailing statement data. The size variable used in the stratification is total transaction pieces. The stratification variables used to capture mailing density are the proportion of pieces in the mailing paying Basic Carrier Route, High Density, and Saturation rates, and the proportion of pieces receiving destination discounts. Based on these variables, publications are divided into six size and five presort-entry categories. The five size categories are:

- 0 to 5,000 pieces
- 5,001 to 15,000 pieces
- 15,001 to 100,000 pieces
- 100,001 to 200,000 pieces
- 200,001 to 1,000,000 pieces.
- Over 1,000,000 pieces

The five presort-entry categories are:

- Low density - High drop-ship : Transactions with less than 50 percent of pieces paying ECR rates and more than 50 percent of the pieces receiving DDU, DSCF or DNDC entry discounts.
- Low Density – Low drop-ship: Transactions with less than 50 percent of pieces paying ECR rates and less than 50 percent of the pieces receiving DDU, DSCF or DNDC entry discounts.
- High density : Transactions with more than 50 percent of pieces paying ECR rates but less than 50 percent of pieces paying High Density and Saturation rates.
- Very High density – Low DDU: Transactions with more than 50 percent of pieces paying High Density and Saturation rates but less than 50 percent of pieces receiving DDU entry discounts.
- Very High density – High DDU: Transactions with more than 50 percent of pieces paying ECR rates and more than 50 percent of pieces receiving DDU entry discounts.

b. Data Sources

Data come from Mail.dat files collected through the PostalOne! electronic verification system between October 2012 and September 2013.

All raw files are summarized into three databases, a piece database, bundle database, and container database. The fields recorded in the piece database are:

- Transaction ID
- Shape

- Container type (pallet, sack, tray type, loose bundle)
- Container presort level
- Container entry facility type
- Parent container status
- Parent container presort level
- Parent container entry facility
- Piece machinability
- Package (bundle) presort level
- Entry discount
- Presort rate
- Number of copies
- Number of pieces
- Weight of pieces.

The fields recorded in the package database are:

- Transaction ID
- Shape
- Container type (pallet, sack, tray type, loose bundle)
- Container presort level
- Container entry facility type
- Parent container status
- Parent container presort level
- Parent container entry facility
- Package (bundle) presort level
- Number of packages (bundles)
- Number of barcoded pieces
- Number of non-barcoded pieces
- Number of barcoded copies
- Number of non-barcoded copies
- Weight of barcoded pieces
- Weight of non-barcoded pieces.

The fields recorded in the container database are:

- Transaction ID
- Shape
- Container type (pallet, sack, tray type, loose bundle)
- Container presort level
- Container entry facility type
- Parent container status
- Parent container presort level
- Parent container entry facility
- Container size category
- Number of containers
- Number of pieces

- Weight

The information for all but the entry facility type is taken directly from the information recorded in the Mail.dat or the qualification report. The entry facility type is determined using the container entry point ZIP Code, the container destination ZIP Code, and the labeling lists from the Domestic Mail Manual. Each entry point is mapped to a facility and then the facility type (SCF, ADC, or NDC) is determined. The destination ZIP Code is then compared with the service territory of the entry facility using the DMM labeling lists to determine the entry facility type (OAO, OSCF, OADC, ONDC, DNDC, DADC, DSCF, or DDU). For containers entered on parent pallets, the presort level of the parent container is used to determine the entry point of the child container. For example, a 5-Digit sack that resides on an SCF parent pallet will have the entry facility type of DSCF because the sack will first be handled as a sack at the DSCF.

c. Estimation

Data for the small mailing sample are weighted by the inverse of the probability that the finance number was selected.[2] Then all data from the piece table are aggregated by strata, shape, presort rate, and piece preparation attribute. The piece preparation attribute is a list of preparation and piece characteristics that includes container type, container presort level, container entry facility type, parent container type, parent container level, parent container entry facility type, bundle presort level and piece machinability. The list of possible values for measured characteristics is presented below.

- Container type
    - Pallet
    - Sack
    - 1 foot tray
    - 2 foot tray
    - EMM tray
    - Other/unidentifiable tray
    - Loose bundle
- Container Level
    - CR
    - 5-Digit CRTS
    - 5-Digit
    - 3-Digit
    - SCF
    - FSS Scheme
    - FSS Facility
    - ADC
    - NDC
    - Mixed ADC
- Container entry facility

[2] W. G. Cochran, *Sampling Techniques (1977).*

    - OAO
    - OSCF
    - OADC
    - ONDC
    - DNDC
    - DADC
    - DSCF
    - DDU
- Parent container type
- Parent container level
    - CR
    - 5-Digit CRTS
    - 3-Digit CRTS
    - 5-Digit
    - 3-Digit
    - SCF
    - ADC
    - Mixed ADC
    - NDC
    - Mixed-NDC
- Parent container entry facility
    - OAO
    - OSCF
    - OADC
    - ONDC
    - DNDC
    - DADC
    - DSCF
    - DDU
- Bundle level
    - Firm
    - Saturation
    - High Density
    - Carrier Route Basic
    - 5-Digit
    - 3-Digit
    - ADC
    - Mixed ADC
- Piece machinability type
    - AFSM 100 Flat
    - UFSM 1000 Flat
    - Manual Flat
    - Letter

Within shape and presort rate and strata, the distribution across preparation attributes is then calculated. These distributions are weighted together using the PostalOne! volume by shape, presort rate and stratum. The result is then

summed across stratum to produce estimates of piece volume by preparation characteristic.

Bundle counts, piece counts and weight from the bundle database are aggregated by strata and bundle attribute (container type, container level, container entry facility type, bundle level, and shape). The piece estimates by strata and bundle attribute are used to weight bundle counts, pieces and weight by strata. Weighted values are then summed across strata to generate national estimates of average bundle size (number of pieces per bundle) and average weight by bundle characteristic.

Container counts, pieces counts and weight from the container database are aggregated by strata and container attribute (container type, container level, container entry facility type, and shape). The piece estimates by strata and container attribute are used to weight container counts, pieces and weight by strata. Weighted values are then summed across strata to generate national estimates of average container size (number of pieces per container) and average weight by container type.

3. Coverage Factor Updating

i. Introduction and Overview

This section describes the methodology employed to derive estimates of Coverage Factors for the flats mail processing cost models. Coverage Factors measure the proportion of mail pieces that are processed at a facility with a given piece of sortation equipment. The Coverage Factors are an input into the mail processing cost models and are used to derive the probability that a mail piece will be sorted on each of the various sortation technologies used by the Postal Service. Several data sources are used to estimate the Coverage Factors. The Postal Service's MAILDIRECTIONv2 file is used to identify the physical location where mail for each 3-Digit zone is processed. MODS data are used to identify the sortation technologies used at each facility. Finally, ODIS data are used to measure the relative volumes processed at each facility.

ii. Development of mappings from Finance Number to Facility ID code

The Postal Service assigns seven-digit Facility ID codes to identify each mail processing facility. These codes are used to communicate, to customers and other Postal Service facilities, the physical location where processing occurs so that mail is transported to the appropriate facility for processing. The MODS data used to assess the available sortation equipment at each facility are reported by Finance Number. As processing activities at more than one physical location can be reported under a single Finance Number, and more than one Finance Number can be used at a single physical location, a database of MODS Finance Numbers and Facility ID codes is needed.

To develop this database, the mailing addresses for each MODS Finance Number were obtained. Then, using the L002 labeling list, each Finance Number was paired with all facilities listed in the ADDRESS file of the Postal Service's Dropship Product that were in the same SCF service territory of the Finance Number.[3] Then by manually comparing the address with each Finance Number to the addresses listed in the ADDRESS file, each listed facility was identified as either belonging to the Finance Number or not belonging to the Finance Number.

iii. Estimation of Coverage Factors

Coverage Factors were constructed by using the MAILDIRECTIONv2 file to identify the seven-digit Facility ID of the processing facility for each 3-digit zone. The facility ID was then mapped to the appropriate MODS Finance Number. MODS data were then used to identify the sortation technologies available at the facility. Finally, ODIS flats volumes were weighted across 3-digit zones. The MAILDIRECTIONv2 records and ODIS volumes were chosen to be consistent with mail processing flows. The specific combinations for each estimated Coverage Factor are listed below:

Originating First-Class Mail Bundles
MAILDIRECTIONv2: DSCF Periodicals Flats[4]
ODIS Volume: ODIS originating First-Class Mail volume
Originating Periodicals Bundles
MAILDIRECTIONv2: DADC Periodicals Flats
ODIS Volume: ODIS destinating Periodicals volume
Originating Standard Mail Bundles
MAILDIRECTIONv2: DNDC Standard Mail Flats
ODIS Volume: ODIS destinating Standard Mail volume
Destinating First-Class Mail Bundles
MAILDIRECTIONv2: DSCF Periodicals Flats[5]
ODIS Volume: ODIS destinating First-Class Mail volume
Destinating Periodicals Bundles
MAILDIRECTIONv2: DSCF Periodicals Flats
ODIS Volume: ODIS destinating Periodicals volume
Destinating Standard Mail Bundles
MAILDIRECTIONv2: DSCF Standard Mail Flats
ODIS Volume: ODIS destinating Standard Mail volume
Originating First-Class Mail Pieces
MAILDIRECTIONv2: Default drop location from MAILDIRECTION

[3] For this purpose, facilities listed only as DDU drop points in the MAILDIRECTIONv2 file were excluded.
[4] For First-Class Mail, Periodicals DSCF is used as a proxy, since the MAILDIRECTION files list only those classes that are subject to destination entry discounts.
[5] For First-Class Mail, Periodicals DSCF is used as a proxy, since the MAILDIRECTION files list only those classes that are subject to destination entry discounts.

ODIS Volume: ODIS originating First-Class Mail volume
Originating Periodicals Pieces
MAILDIRECTIONv2: Default drop location from MAILDIRECTION
ODIS Volume: ODIS destinating Periodicals volume
Originating Standard Mail Pieces
MAILDIRECTIONv2: Default drop location from MAILDIRECTION
ODIS Volume: ODIS destinating Standard Mail volume
Destinating First-Class Mail Pieces
MAILDIRECTIONv2: Default drop location from MAILDIRECTION
ODIS Volume: ODIS destinating First-Class Mail volume
Destinating Periodicals Pieces
MAILDIRECTIONv2: Default drop location from MAILDIRECTION
ODIS Volume: ODIS destinating Periodicals volume
Destinating Standard Mail Pieces
MAILDIRECTIONv2: Default drop location from MAILDIRECTION
ODIS Volume: ODIS destinating Standard Mail volume

E. Input/Output

This attachment relies upon the FY 2013 PostalOne! mailing statement database; FY 2013 Mail.dat data from the PostalOne! eVS system; and USPS-LR-L-32 for First-Class Mail.

The Standard Mail, Periodicals and First-Class Mail mail characteristics data are used to calibrate the models developed in USPS-FY13-11. The Standard Mail and First-Class Mail mail characteristics data are used to calibrate the models developed in USPS-FY13-10. The Standard Mail and Periodicals mail characteristics data are used in USPS-FY13-13. The estimates of RPW by shape and indicia are used in multiple attachments.

II. ORGANIZATION

The tables of the characteristics estimates are presented below and in electronic version in the Microsoft Office Excel workbook 'MAILCHAR13V.xls' . The estimates of RPW by shape and indicia are presented in the Microsoft Office Excel workbook "Shape Indicia FY 2013V.xls". The coverage factor and results are provided in the workbook "Coverage Factors 13m.xls". The programs and workbooks used to estimate these volumes are described in the Program Documentation.

MAILCHAR13V.xls

Table MCS - 1

FIRST-CLASS MAIL PRESORT LETTERS MAIL CHARACTERISTICS DATA

USPS-FY13-14

RATE CATEGORY	MACHINABILITY	TRAY PRESORT	PACKAGE PRESORT	VOLUME	AVERAGE PCS PER PACKAGE
Nonauto Presort Letters	Machinable ("MACH")	Mixed AADC	N/A (FULL TRAYS)	351,762,745	N/A
Nonauto Presort Letters	Machinable ("MACH")	AADC	N/A (FULL TRAYS)	117,295,718	N/A
Nonauto Presort Letters	Machinable ("MACH")	3-Digit	N/A (FULL TRAYS)	307,235,479	N/A
Nonauto Presort Letters	Machinable ("MACH")	5-Digit	N/A (FULL TRAYS)	66,541,866	N/A
TOTAL				**842,835,808**	

RATE CATEGORY	MACHINABILITY	TRAY PRESORT	PACKAGE PRESORT	VOLUME	AVERAGE PCS PER PACKAGE
Nonauto Presort Letters	Nonmachinable ("MANUAL")	Mixed ADC	Mixed ADC	295,153	20.6
Nonauto Presort Letters	Nonmachinable ("MANUAL")	Mixed ADC	ADC	1,001,482	15.8
Nonauto Presort Letters	Nonmachinable ("MANUAL")	Mixed ADC	3-Digit	379,056	17.8
Nonauto Presort Letters	Nonmachinable ("MANUAL")	Mixed ADC	5-Digit	4,727	19.0
Nonauto Presort Letters	Nonmachinable ("MANUAL")	Mixed ADC	N/A (FULL TRAYS)	4,524,035	N/A
Nonauto Presort Letters	Nonmachinable ("MANUAL")	ADC	ADC	166,020	12.8
Nonauto Presort Letters	Nonmachinable ("MANUAL")	ADC	3-Digit	2,024,429	18.5
Nonauto Presort Letters	Nonmachinable ("MANUAL")	ADC	5-Digit	318,337	17.2
Nonauto Presort Letters	Nonmachinable ("MANUAL")	ADC	N/A (FULL TRAYS)	427,549	N/A
Nonauto Presort Letters	Nonmachinable ("MANUAL")	3-Digit	3-Digit	1,152,708	20.1
Nonauto Presort Letters	Nonmachinable ("MANUAL")	3-Digit	5-Digit	1,255,295	18.9
Nonauto Presort Letters	Nonmachinable ("MANUAL")	3-Digit	N/A (FULL TRAYS)	1,356,394	N/A
Nonauto Presort Letters	Nonmachinable ("MANUAL")	5-Digit	N/A (FULL TRAYS)	761,871	N/A
TOTAL				**13,667,055**	

RATE CATEGORY	VOLUME
Nonauto Presort Letters	**856,502,863**
Auto MAADC Presort Letters	**2,151,553,012**
Auto AADC Presort Letters	**8,241,233,796**
Auto 3-Digit Presort Letters	**7,795,977,769**
Auto 5-Digit Presort Letters	**19,892,979,331**
Total Presort Letters	**38,938,246,771**

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Table MCS - 2						
FIRST-CLASS MAIL PRESORT CARDS MAIL CHARACTERISTICS DATA						
USPS-FY13-14						
					AVERAGE	
					PCS PER	NONAUTO
RATE CATEGORY	MACHINABILITY	TRAY PRESORT	PACKAGE PRESORT	VOLUME	PACKAGE	PERCENT
Nonauto Presort Cards	Machinable ("MACH")	Mixed AADC	N/A (FULL TRAYS)	72,548,489	N/A	42.44%
Nonauto Presort Cards	Machinable ("MACH")	AADC	N/A (FULL TRAYS)	7,938,511	N/A	4.64%
Nonauto Presort Cards	Machinable ("MACH")	3-Digit	N/A (FULL TRAYS)	59,982,709	N/A	35.09%
Nonauto Presort Cards	Machinable ("MACH")	5-Digit	N/A (FULL TRAYS)	4,928,979	N/A	2.88%
TOTAL				**145,398,689**		
					AVERAGE	
					PCS PER	
RATE CATEGORY	MACHINABILITY	TRAY PRESORT	PACKAGE PRESORT	VOLUME	PACKAGE	
Nonauto Presort Cards	Nonmachinable ("MANUAL")	Mixed ADC	Mixed ADC	2,527,618	41.0	
Nonauto Presort Cards	Nonmachinable ("MANUAL")	Mixed ADC	ADC	0	0.0	
Nonauto Presort Cards	Nonmachinable ("MANUAL")	Mixed ADC	3-Digit	0	0.0	
Nonauto Presort Cards	Nonmachinable ("MANUAL")	Mixed ADC	5-Digit	22,748,566	48.4	14.95%
Nonauto Presort Cards	Nonmachinable ("MANUAL")	Mixed ADC	N/A (FULL TRAYS)	274,899	N/A	
Nonauto Presort Cards	Nonmachinable ("MANUAL")	ADC	ADC	0	0.0	
Nonauto Presort Cards	Nonmachinable ("MANUAL")	ADC	3-Digit	0	0.0	
Nonauto Presort Cards	Nonmachinable ("MANUAL")	ADC	5-Digit	0	0.0	
Nonauto Presort Cards	Nonmachinable ("MANUAL")	ADC	N/A (FULL TRAYS)	0	N/A	
Nonauto Presort Cards	Nonmachinable ("MANUAL")	3-Digit	3-Digit	0	0.0	
Nonauto Presort Cards	Nonmachinable ("MANUAL")	3-Digit	5-Digit	0	0.0	
Nonauto Presort Cards	Nonmachinable ("MANUAL")	3-Digit	N/A (FULL TRAYS)	0	N/A	
Nonauto Presort Cards	Nonmachinable ("MANUAL")	5-Digit	N/A (FULL TRAYS)	0	N/A	
TOTAL				**25,551,083**		**100.00%**
Nonauto Presort Cards				**170,949,772**		
Auto MAADC Presort Cards				**211,199,782**		
Auto AADC Presort Cards				**242,138,187**		
Auto 3-Digit Cards				**830,664,363**		
Auto 5-Digit Cards				**964,337,973**		
Total Presort Cards				**2,419,290,077**		

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Table MCS - 3

FIRST-CLASS MAIL PRESORT FLATS MAIL CHARACTERISTICS DATA

RATE CATEGORY	MACHINABILITY	TUB PRESORT	PACKAGE PRESORT	VOLUME	AVERAGE PCS PER PACKAGE
Nonauto Presort Flats	AFSM100	Mixed ADC	Mixed ADC	671,917	20.5
Nonauto Presort Flats	AFSM100	Mixed ADC	ADC	1,905,263	17.7
Nonauto Presort Flats	AFSM100	Mixed ADC	3-Digit	1,183,925	16.3
Nonauto Presort Flats	AFSM100	Mixed ADC	5-Digit	67,420	25.6
Nonauto Presort Flats	AFSM100	Mixed ADC	N/A (FULL TRAYS)	598,229	N/A
Nonauto Presort Flats	AFSM100	ADC	ADC	1,376,360	14.0
Nonauto Presort Flats	AFSM100	ADC	3-Digit	2,490,821	15.6
Nonauto Presort Flats	AFSM100	ADC	5-Digit	450,318	14.3
Nonauto Presort Flats	AFSM100	ADC	N/A (FULL TRAYS)	331,024	N/A
Nonauto Presort Flats	AFSM100	3-Digit	3-Digit	4,102,344	17.9
Nonauto Presort Flats	AFSM100	3-Digit	5-Digit	3,241,829	15.4
Nonauto Presort Flats	AFSM100	3-Digit	N/A (FULL TRAYS)	254,574	N/A
Nonauto Presort Flats	AFSM100	5-Digit	5-Digit	366,383	23.5
Nonauto Presort Flats	AFSM100	5-Digit	N/A (FULL TRAYS)	818,584	N/A
Nonauto Presort Flats	UFSM1000	Mixed ADC	Mixed ADC	535,869	16.9
Nonauto Presort Flats	UFSM1000	Mixed ADC	ADC	1,008,959	18.5
Nonauto Presort Flats	UFSM1000	Mixed ADC	3-Digit	1,251,170	14.8
Nonauto Presort Flats	UFSM1000	Mixed ADC	5-Digit	0	0.0
Nonauto Presort Flats	UFSM1000	Mixed ADC	N/A (FULL TRAYS)	29,211	N/A
Nonauto Presort Flats	UFSM1000	ADC	ADC	2,915,779	15.6
Nonauto Presort Flats	UFSM1000	ADC	3-Digit	2,726,557	18.7
Nonauto Presort Flats	UFSM1000	ADC	5-Digit	150,764	13.1
Nonauto Presort Flats	UFSM1000	ADC	N/A (FULL TRAYS)	6,578	N/A
Nonauto Presort Flats	UFSM1000	3-Digit	3-Digit	1,932,610	16.3
Nonauto Presort Flats	UFSM1000	3-Digit	5-Digit	1,945,115	13.4
Nonauto Presort Flats	UFSM1000	3-Digit	N/A (FULL TRAYS)	620,302	N/A
Nonauto Presort Flats	UFSM1000	5-Digit	5-Digit	427,986	21.4
Nonauto Presort Flats	UFSM1000	5-Digit	N/A (FULL TRAYS)	414,313	N/A
TOTAL				**31,824,203**	

RATE CATEGORY	MACHINABILITY	TUB PRESORT	PACKAGE PRESORT	VOLUME	AVERAGE PCS PER PACKAGE
Mixed ADC Auto Presort Flats	AFSM100	Mixed ADC	Mixed ADC	29,599,012	10.1
Mixed ADC Auto Presort Flats	AFSM100	Mixed ADC	N/A (FULL TRAYS)	25,905,299	N/A
Mixed ADC Auto Presort Flats	UFSM1000	Mixed ADC	Mixed ADC	2,991,574	19.0
Mixed ADC Auto Presort Flats	UFSM1000	Mixed ADC	N/A (FULL TRAYS)	962,754	N/A
TOTAL				**59,458,638**	

RATE CATEGORY	MACHINABILITY	TUB PRESORT	PACKAGE PRESORT	VOLUME	AVERAGE PCS PER PACKAGE
ADC Auto Presort Flats	AFSM100	Mixed ADC	ADC	24,646,052	17.4
ADC Auto Presort Flats	AFSM100	ADC	ADC	21,885,627	7.0
ADC Auto Presort Flats	AFSM100	ADC	N/A (FULL TRAYS)	43,710,183	N/A
ADC Auto Presort Flats	UFSM1000	Mixed ADC	ADC	6,654,285	15.9
ADC Auto Presort Flats	UFSM1000	ADC	ADC	1,738,031	17.2
ADC Auto Presort Flats	UFSM1000	ADC	N/A (FULL TRAYS)	402,802	N/A
TOTAL				**99,036,981**	

RATE CATEGORY	MACHINABILITY	TUB PRESORT	PACKAGE PRESORT	VOLUME	AVERAGE PCS PER PACKAGE
3-Digit Auto Presort Flats	AFSM100	Mixed ADC	3-Digit	33,462,613	17.8
3-Digit Auto Presort Flats	AFSM100	ADC	3-Digit	55,704,257	26.0
3-Digit Auto Presort Flats	AFSM100	3-Digit	3-Digit	70,725,404	13.3
3-Digit Auto Presort Flats	AFSM100	3-Digit	N/A (FULL TRAYS)	95,899,513	N/A
3-Digit Auto Presort Flats	UFSM1000	Mixed ADC	3-Digit	6,151,238	14.0
3-Digit Auto Presort Flats	UFSM1000	ADC	3-Digit	7,099,071	26.9
3-Digit Auto Presort Flats	UFSM1000	3-Digit	3-Digit	10,722,227	21.2
3-Digit Auto Presort Flats	UFSM1000	3-Digit	N/A (FULL TRAYS)	1,709,475	N/A
TOTAL				**281,473,799**	

RATE CATEGORY	MACHINABILITY	TUB PRESORT	PACKAGE PRESORT	VOLUME	AVERAGE PCS PER PACKAGE
5-Digit Auto Presort Flats	AFSM100	Mixed ADC	5-Digit	2,107,690	13.5
5-Digit Auto Presort Flats	AFSM100	ADC	5-Digit	6,664,157	16.4
5-Digit Auto Presort Flats	AFSM100	3-Digit	5-Digit	59,204,964	24.3
5-Digit Auto Presort Flats	AFSM100	5-Digit	5-Digit	35,572,834	31.0
5-Digit Auto Presort Flats	AFSM100	5-Digit	N/A (FULL TRAYS)	29,244,824	N/A
5-Digit Auto Presort Flats	UFSM1000	Mixed ADC	5-Digit	243,504	10.1
5-Digit Auto Presort Flats	UFSM1000	ADC	5-Digit	3,116,954	16.3
5-Digit Auto Presort Flats	UFSM1000	3-Digit	5-Digit	12,204,718	14.9
5-Digit Auto Presort Flats	UFSM1000	5-Digit	5-Digit	1,572,292	20.0
5-Digit Auto Presort Flats	UFSM1000	5-Digit	N/A (FULL TRAYS)	60,253	N/A
TOTAL				**149,992,191**	

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Model Volumes
USPS-FY13-14
Table MCS-4

Table A1: Outside County Sack & Pallet Counts By Entry Point & Container Presort (FY13)

Container		Entry Point						
Type	Presort	DDU	DSCF	DADC	DBMC	OBMC	OADC	OSCF/OAO
Sacks	MADC	0	0	0	5,962	49,938	2,472,436	533,001
	ADC	0	0	35,995	4,064	74,895	835,399	361,862
	3-DISCF	0	1,130,268	158,043	17,188	26,987	3,182,939	1,096,901
	FSS Facility	0	0	0	0	0	0	0
	FSS Scheme	0	0	0	0	0	0	0
	5-d	297,753	409,360	82,002	6,528	5,885	684,681	239,616
	5-d CR	59,763	322,687	28,374	528	3,192	322,189	125,502
	CR	61,107	219,379	11,291	60	1,684	190,401	178,597
Pallets	MADC	0	0	0	1,094	11,432	127,151	32,775
	ADC	0	0	223,397	4,498	1,784	65,565	34,303
	3-D/SCF	0	1,026,505	121,593	33,746	5,703	118,125	71,838
	FSS Facility	0	12,588	209	12	0	250	138
	FSS Scheme	0	28,186	1,599	2,841	2	2,029	2,038
	5-Digit	13,354	225,703	9,305	2,842	79	9,676	6,664

Table A2: Estimated FY13 Counts Of Bundles By Bundle & Container Presort Level

Bundle	Sacks								Pallets						Total	Average Pieces
Presort	MADC	ADC	SCF/3-D	FSS Fac	FSS Sch	5-Digit	5-D CR	CR	MADC	ADC	3D-SCF	FSS Fac	FSS Sch	5-Digit	Bundles	per Bundle
MADC	3,724,479	0	0	0	0	0	0	0	379,055	0	0	0	0	0	4,103,534	14.1
ADC	3,324,882	1,630,277	0	0	0	0	0	0	1,970,409	154,085	0	0	0	0	7,079,653	10.2
3-D	3,790,890	3,637,653	7,714,217	0	0	0	0	0	8,765,127	4,217,941	4,228,960	0	0	0	32,354,788	16.8
5-D	1,510,459	642,595	11,028,849	0	0	2,707,743	0	0	12,658,764	15,301,281	50,117,310	0	0	194,982	94,161,983	14.2
FSS	3,943	2,538	482	0	0	7,888	0	0	21,109	32,992	119,123	5,239,265	445,926	0	5,873,264	31.7
CR	0	37	7,347,065	0	0	1,233,077	3,265,168	884,989	0	8,715,845	206,475,335	0	0	17,277,080	245,198,596	14.2
Firm	2,421,754	1,270,164	1,969,663	0	0	219,731	73,149	23,396	3,561,077	4,780,534	13,139,154	599	37	677,879	28,137,136	1.0
Total	14,776,408	7,183,265	28,060,276	0	0	4,168,439	3,338,317	908,385	27,355,539	33,202,677	274,079,881	5,239,863	445,962	18,149,941	416,908,954	

Table A3: FY13 Piece Counts By Bundle & Container Presort Level And Piece Characteristics

Bundle	Piece	Sacks								Pallets					
Level	Type	MADC	ADC	3-D	FSS Fac	FSS Sch	5-D	5-D CR	CR	MADC	ADC	3-D	FSS Fac	FSS Sch	5-D
MADC	NBC/NM	10,031,618	0	0	0	0	0	0	0	748,259	0	0	0	0	0
	NBC/M	2,049,768	0	0	0	0	0	0	0	1,052,134	0	0	0	0	0
	BC/NM	13,493,026	0	0	0	0	0	0	0	881,580	0	0	0	0	0
	BC/M	23,612,856	0	0	0	0	0	0	0	5,839,689	0	0	0	0	0
ADC	NBC/NM	5,019,888	1,698,397	0	0	0	0	0	0	1,207,561	195,300	0	0	0	0
	NBC/M	850,344	690,762	0	0	0	0	0	0	1,829,864	382,081	0	0	0	0
	BC/NM	5,009,781	3,870,608	0	0	0	0	0	0	886,288	99,020	0	0	0	0
	BC/M	16,544,715	13,195,894	0	0	0	0	0	0	19,545,595	1,255,483	0	0	0	0
3d	NBC/NM	2,348,762	1,635,391	7,822,635	0	0	0	0	0	5,630,916	4,168,050	2,417,802	0	0	0
	NBC/M	716,353	1,007,118	2,498,784	0	0	0	0	0	7,353,661	9,514,743	9,180,920	0	0	0
	BC/NM	6,075,071	5,844,639	15,226,752	0	0	0	0	0	5,098,224	2,738,709	2,686,593	0	0	0
	BC/M	21,057,651	27,143,549	109,022,111	0	0	0	0	0	133,359,077	74,212,769	85,444,486	0	0	0
5d	NBC/NM	1,114,443	140,325	6,086,924	0	0	344,926	0	0	4,244,857	6,002,036	5,037,458	0	0	81,922
	NBC/M	39,251	14,489	175,578	0	0	54,738	0	0	1,047,020	2,138,497	10,382,466	0	0	196,956
	BC/NM	3,167,857	643,059	16,280,603	0	0	8,155,983	0	0	4,423,277	5,217,485	23,561,185	0	0	645,126
	BC/M	6,713,783	4,227,459	84,072,005	0	0	54,266,862	0	0	123,372,005	190,635,603	771,990,518	0	0	1,764,791
FSS	NBC/NM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NBC/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	BC/NM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	BC/M	29,627	16,664	14,157	0	0	250,246	0	0	364,785	661,719	3,858,821	166,879,745	13,895,951	0
CR	NM	0	0	4,228,467	0	0	100,195	3,095,175	3,642,661	0	880,028	33,201,176	0	0	17,914,926
	M	0	506	62,733,996	0	0	12,462,380	29,179,162	23,327,740	0	85,565,791	2,763,071,408	0	0	447,697,352
Firm	NM	264,716	42,647	26,769	0	0	741	47	18	240,054	91,273	158,138	0	0	28,987
	M	2,165,143	1,233,114	1,948,454	0	0	220,668	72,970	23,407	3,338,541	4,707,454	13,048,225	604	37	652,706
Total Pieces:		120,304,653	61,404,622	310,137,234	0	0	75,856,738	32,347,354	26,993,826	320,463,386	388,466,040	3,724,039,197	166,880,349	13,895,988	468,982,767
							Sacked:		627,044,427		Palletized:				5,082,727,727
											Total FY12:				5,709,772,154

Container	Level	NBC/NM	NBC/M	BC/NM	BC/M
MADC Sack	MADC	10,031,618	2,049,768	13,493,026	23,612,856
	ADC	5,019,888	850,344	5,009,781	16,544,715
	3-Digit	2,348,762	716,353	6,075,071	21,057,651
	5-Digit	1,114,443	39,251	3,167,857	6,713,783
	FSS	0	0	0	29,627
	CR	0	0	0	0
ADC Sack	ADC	1,698,397	690,762	3,870,608	13,195,894
	3-Digit	1,635,391	1,007,118	5,844,639	27,143,549
	5-Digit	140,325	14,489	643,059	4,227,459
	FSS	0	0	0	16,664
	CR	0	506	0	0
3 SCF Digit Sack	3-Digit	7,822,635	2,498,784	15,226,752	109,022,111
	5-Digit	6,086,924	175,578	16,280,603	84,072,005
	FSS	0	0	0	14,157
	CR	4,228,467	62,733,996	0	0
FSS Facility Sack	5-Digit	0	0	0	0
	FSS	0	0	0	0
	CR	0	0	0	0
FSS Scheme Sack	5-Digit	0	0	0	0
	FSS	0	0	0	0
	CR	0	0	0	0
5- Digit Sack	5-Digit	344,926	54,738	8,155,983	54,266,862
	CR	100,195	12,462,380	0	0
5 D CR Sack	CR	3,095,175	29,179,162		
CR Sack	CR	3,642,661	23,327,740		
MADC Pallet	MADC	748,259	1,052,134	881,580	5,839,689
	ADC	1,207,561	1,829,864	886,288	19,545,595
	3-Digit	5,630,916	7,353,661	5,098,224	133,359,077
	5-Digit	4,244,857	1,047,020	4,423,277	123,372,005
	FSS	0	0	0	364,785
	CR	0	0	0	0
ADC Pallet	ADC	195,300	382,081	99,020	1,255,483
	3-Digit	4,168,050	9,514,743	2,738,709	74,212,769
	5-Digit	6,002,036	2,138,497	5,217,485	190,635,603
	FSS	0	0	0	661,719
	CR	880,028	85,565,791	0	0
SCF/3-Digit Pallet	3-Digit	2,417,802	9,180,920	2,686,593	85,444,486
	5-Digit	5,037,458	10,382,466	23,561,185	771,990,518
	FSS	0	0	0	3,858,821
	CR	33,201,176	2,763,071,408	0	0
FSS Facility Pallet	5-Digit	0	0	0	0
	FSS	0	0	0	166,879,745
	CR	0	0	0	0
FSS Scheme Pallet	5-Digit	0	0	0	0
	FSS	0	0	0	13,895,951
	CR	0	0	0	0
5-Digit Pallet	5-Digit	81,922	196,956	645,126	1,764,791
	CR	17,914,926	447,697,352	0	0
		MADC Sacks	L201	1,744,995	57.00%
			L009	1,316,341	

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Table MCS - 5

STANDARD MAIL PRESORT LETTERS MAIL CHARACTERISTICS DATA

(Includes flats mailed at NSA rates and letter-shaped pieces mailed at flat rates)

RATE CATEGORY	MACHINABILITY	TRAY PRESORT	PACKAGE PRESORT	VOLUME	AVERAGE PCS PER PACKAGE
Nonauto MADC Presort Letters	Machinable ("MACH")	Mixed AADC	N/A (FULL TRAYS)	399,139,422	N/A
TOTAL				**399,139,422**	

RATE CATEGORY	MACHINABILITY	TRAY PRESORT	PACKAGE PRESORT	VOLUME	AVERAGE PCS PER PACKAGE
Nonauto ADC Presort Letters	Machinable ("MACH")	AADC	N/A (FULL TRAYS)	583,030,111	N/A
Nonauto ADC Presort Letters	Machinable ("MACH")	3-Digit	N/A (FULL TRAYS)	426,425,276	N/A
TOTAL				**1,009,455,387**	

RATE CATEGORY	MACHINABILITY	TRAY PRESORT	PACKAGE PRESORT	VOLUME	AVERAGE PCS PER PACKAGE
Nonauto MADC Presort Letters	Nonmachinable ("MANUAL")	Mixed ADC	Mixed ADC	5,421,685	27
Nonauto MADC Presort Letters	Nonmachinable ("MANUAL")	Mixed ADC	ADC	2,909,383	17
Nonauto MADC Presort Letters	Nonmachinable ("MANUAL")	Mixed ADC	3-Digit	363,415	17
Nonauto MADC Presort Letters	Nonmachinable ("MANUAL")	Mixed ADC	5-Digit	192,127	16
TOTAL				**8,886,611**	

RATE CATEGORY	MACHINABILITY	TRAY PRESORT	PACKAGE PRESORT	VOLUME	AVERAGE PCS PER PACKAGE
Nonauto ADC Presort Letters	Nonmachinable ("MANUAL")	ADC	ADC	4,573,749	20
Nonauto ADC Presort Letters	Nonmachinable ("MANUAL")	ADC	3-Digit	1,041,892	22
Nonauto ADC Presort Letters	Nonmachinable ("MANUAL")	ADC	5-Digit	28,940	19
Nonauto ADC Presort Letters	Nonmachinable ("MANUAL")	3-Digit	3-Digit	1,604,208	34
Nonauto ADC Presort Letters	Nonmachinable ("MANUAL")	3-Digit	5-Digit	92,536	30
TOTAL				**7,341,324**	

RATE CATEGORY	MACHINABILITY	TRAY PRESORT	PACKAGE PRESORT	VOLUME	AVERAGE PCS PER PACKAGE
Nonauto 3 Digit Presort Letters	Nonmachinable ("MANUAL")	3-Digit	3-Digit	14,176,907	29
Nonauto 3 Digit Presort Letters	Nonmachinable ("MANUAL")	3-Digit	5-Digit	3,856,137	27
TOTAL				**18,033,044**	

RATE CATEGORY	MACHINABILITY	TRAY PRESORT	PACKAGE PRESORT	VOLUME	AVERAGE PCS PER PACKAGE
Nonauto 5 Digit Presort Letters	Nonmachinable ("MANUAL")	5-Digit	N/A (FULL TRAYS)	18,066,410	N/A
TOTAL				**18,066,410**	

RATE CATEGORY	VOLUME
Nonauto Presort Letters	**1,460,922,198**
Auto MAADC Presort Letters	**1,885,138,246**
Auto AADC Presort Letters	**2,107,397,637**
Auto 3-Digit Presort Letters	**15,926,834,728**
Auto 5-Digit Presort Letters	**26,414,777,443**
Total Presort Letters	**47,795,070,252**

MAILCHAR13V.xls

USPS-FY13-14
Table MCS - 6
STANDARD MAIL PRESORT FLATS MAIL CHARACTERISTICS DATA
(Includes flats mailed at NSA rates and excludes letter-shaped pieces mailed at flat rates)

RATE CATEGORY	MACHINABILITY	CONTAINER PRESORT	PACKAGE PRESORT	PALLET VOLUME	SACK VOLUME	TOTAL VOLUME	PALLET AVERAGE PCS PER PACKAGE	SACK AVERAGE PCS PER PACKAGE
Nonauto MADC Presort Flats	AFSM100	Mixed ADC	Mixed ADC	0	6,553,352	6,553,352	0.0	20.9
Nonauto MADC Presort Flats	AFSM100	Mixed ADC	ADC	0	16,218,300	16,218,300	0.0	15.1
Nonauto MADC Presort Flats	AFSM100	Mixed ADC	3-Digit	0	22,893,114	22,893,114	0.0	17.0
Nonauto MADC Presort Flats	AFSM100	Mixed ADC	5-Digit	0	2,044,378	2,044,378	0.0	18.5
Nonauto MADC Presort Flats	AFSM100	BMC/ADC	Mixed ADC	734,684	0	734,684	17.2	0.0
Nonauto MADC Presort Flats	UFSM1000	Mixed ADC	Mixed ADC	0	0	0	0.0	0.0
Nonauto MADC Presort Flats	UFSM1000	Mixed ADC	ADC	0	0	0	0.0	0.0
Nonauto MADC Presort Flats	UFSM1000	Mixed ADC	3-Digit	0	0	0	0.0	0.0
Nonauto MADC Presort Flats	UFSM1000	Mixed ADC	5-Digit	0	0	0	0.0	0.0
Nonauto MADC Presort Flats	UFSM1000	BMC/ADC	Mixed ADC	0	0	0	0.0	0.0
TOTAL				**734,684**	**47,709,143**	**48,443,827**		

RATE CATEGORY	MACHINABILITY	CONTAINER PRESORT	PACKAGE PRESORT	PALLET VOLUME	SACK VOLUME	TOTAL VOLUME	AVERAGE PCS PER PACKAGE	AVERAGE PCS PER PACKAGE
Nonauto ADC Presort Flats	AFSM100	BMC/ADC	ADC	1,400,070	3,297,501	4,697,571	16.5	15.9
Nonauto ADC Presort Flats	AFSM100	BMC/ADC	3-Digit	0	17,096,627	17,096,627	0.0	20.0
Nonauto ADC Presort Flats	AFSM100	BMC/ADC	5-Digit	0	2,956,683	2,956,683	0.0	21.7
Nonauto ADC Presort Flats	AFSM100	3-Digit	3-Digit	0	2,556,099	2,556,099	0.0	31.2
Nonauto ADC Presort Flats	AFSM100	3-Digit	5-Digit	0	0	0	0.0	0.0
Nonauto ADC Presort Flats	UFSM1000	BMC/ADC	ADC	0	0	0	0.0	0.0
Nonauto ADC Presort Flats	UFSM1000	BMC/ADC	3-Digit	0	0	0	0.0	0.0
Nonauto ADC Presort Flats	UFSM1000	BMC/ADC	5-Digit	0	0	0	0.0	0.0
Nonauto ADC Presort Flats	UFSM1000	3-Digit	3-Digit	0	0	0	0.0	0.0
Nonauto ADC Presort Flats	UFSM1000	3-Digit	5-Digit	0	0	0	0.0	0.0
TOTAL				**1,400,070**	**25,906,910**	**27,306,980**		

RATE CATEGORY	MACHINABILITY	CONTAINER PRESORT	PACKAGE PRESORT	PALLET VOLUME	SACK VOLUME	TOTAL VOLUME	AVERAGE PCS PER PACKAGE	AVERAGE PCS PER PACKAGE
Nonauto 3 Digit Presort Flats	AFSM100	BMC/ADC	3-Digit	27,444,517	0	27,444,517	28.7	0.0
Nonauto 3 Digit Presort Flats	AFSM100	3-Digit	3-Digit	34,959,018	17,809,798	52,768,816	33.3	26.5
Nonauto 3 Digit Presort Flats	AFSM100	3-Digit	5-Digit	0	18,269,224	18,269,224	0.0	23.4
Nonauto 3 Digit Presort Flats	UFSM1000	BMC/ADC	3-Digit	0	0	0	0.0	0.0
Nonauto 3 Digit Presort Flats	UFSM1000	3-Digit	3-Digit	0	0	0	0.0	0.0
Nonauto 3 Digit Presort Flats	UFSM1000	3-Digit	5-Digit	0	0	0	0.0	0.0
TOTAL				**62,403,535**	**36,079,022**	**98,482,557**		

RATE CATEGORY	MACHINABILITY	CONTAINER PRESORT	PACKAGE PRESORT	PALLET VOLUME	SACK VOLUME	TOTAL VOLUME	AVERAGE PCS PER PACKAGE	AVERAGE PCS PER PACKAGE
Nonauto 5 Digit Presort Flats	AFSM100	BMC/ADC	5-Digit	23,787,667	0	23,787,667	22.3	0.0
Nonauto 5 Digit Presort Flats	AFSM100	3-Digit	5-Digit	88,646,170	0	88,646,170	26.5	0.0
Nonauto 5 Digit Presort Flats	AFSM100	5-Digit	5-Digit	1,809,039	11,282,582	13,091,621	28.9	27.0
Nonauto 5 Digit Presort Flats	UFSM1000	BMC/ADC	5-Digit	0	0	0	0.0	0.0
Nonauto 5 Digit Presort Flats	UFSM1000	3-Digit	5-Digit	0	0	0	0.0	0.0
Nonauto 5 Digit Presort Flats	UFSM1000	5-Digit	5-Digit	0	0	0	0.0	0.0
TOTAL				**114,242,875**	**11,282,582**	**125,525,457**		

RATE CATEGORY	MACHINABILITY	CONTAINER PRESORT	PACKAGE PRESORT	PALLET VOLUME	SACK VOLUME	TOTAL VOLUME	AVERAGE PCS PER PACKAGE	AVERAGE PCS PER PACKAGE
Auto MADC Presort Flats	AFSM100	Mixed ADC	Mixed ADC	1,882	60,023,509	60,025,391	23.6	20.9
Auto MADC Presort Flats	AFSM100	BMC/ADC	Mixed ADC	2,065,646	0	2,065,646	9.6	0.0
Auto MADC Presort Flats	UFSM1000	Mixed ADC	Mixed ADC	0	0	0	0.0	0.0
Auto MADC Presort Flats	UFSM1000	BMC/ADC	Mixed ADC	0	0	0	0.0	0.0
TOTAL				**2,067,528**	**60,023,509**	**62,091,037**		

RATE CATEGORY	MACHINABILITY	CONTAINER PRESORT	PACKAGE PRESORT	PALLET VOLUME	SACK VOLUME	TOTAL VOLUME	AVERAGE PCS PER PACKAGE	AVERAGE PCS PER PACKAGE
Auto ADC Presort Flats	AFSM100	Mixed ADC	ADC	3,725	76,221,888	76,225,613	9.2	14.9
Auto ADC Presort Flats	AFSM100	BMC/ADC	ADC	11,180,129	40,154,245	51,334,375	16.1	15.7
Auto ADC Presort Flats	UFSM1000	Mixed ADC	ADC	0	0	0	0.0	0.0
Auto ADC Presort Flats	UFSM1000	BMC/ADC	ADC	0	0	0	0.0	0.0
				11,183,855	**116,376,133**	**127,559,988**		

RATE CATEGORY	MACHINABILITY	CONTAINER PRESORT	PACKAGE PRESORT	PALLET VOLUME	SACK VOLUME	TOTAL VOLUME	AVERAGE PCS PER PACKAGE	AVERAGE PCS PER PACKAGE
Auto 3 Digit Presort Flats	AFSM100	Mixed ADC	3-Digit	10,130	152,771,805	152,781,935	11.9	16.8
Auto 3 Digit Presort Flats	AFSM100	BMC/ADC	3-Digit	498,492,053	220,549,236	719,041,289	30.8	20.2
Auto 3 Digit Presort Flats	AFSM100	3-Digit	3-Digit	337,916,616	293,427,805	631,344,422	32.0	26.7
Auto 3 Digit Presort Flats	UFSM1000	Mixed ADC	3-Digit	0	0	0	0.0	0.0
Auto 3 Digit Presort Flats	UFSM1000	BMC/ADC	3-Digit	0	0	0	0.0	0.0
Auto 3 Digit Presort Flats	UFSM1000	3-Digit	3-Digit	0	0	0	0.0	0.0
TOTAL				**836,418,799**	**666,748,846**	**1,503,167,645**		

RATE CATEGORY	MACHINABILITY	CONTAINER PRESORT	PACKAGE PRESORT	PALLET VOLUME	SACK VOLUME	TOTAL VOLUME	AVERAGE PCS PER PACKAGE	AVERAGE PCS PER PACKAGE
Auto 5 Digit Presort Flats	AFSM100	Mixed ADC	5-Digit	912	16,157,610	16,158,522	7.8	17.9
Auto 5 Digit Presort Flats	AFSM100	BMC/ADC	5-Digit	652,122,767	39,567,054	691,689,821	24.3	17.8
Auto 5 Digit Presort Flats	AFSM100	3-Digit	5-Digit	2,185,076,968	388,384,613	2,573,461,581	26.5	22.7
Auto 5 Digit Presort Flats	AFSM100	5-Digit	5-Digit	24,005,762	262,212,073	286,217,835	32.0	29.1
Auto 5 Digit Presort Flats	UFSM1000	Mixed ADC	5-Digit	0	0	0	0.0	0.0
Auto 5 Digit Presort Flats	UFSM1000	BMC/ADC	5-Digit	0	0	0	0.0	0.0
Auto 5 Digit Presort Flats	UFSM1000	3-Digit	5-Digit	0	0	0	0.0	0.0
Auto 5 Digit Presort Flats	UFSM1000	5-Digit	5-Digit	0	0	0	0.0	0.0
TOTAL				**2,861,206,409**	**706,321,350**	**3,567,527,759**		

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Table MCS - 7

STANDARD MAIL ECR FLATS MAIL CHARACTERISTICS DATA

(Includes flats mailed at NSA rates and excludes letter-shaped pieces mailed at flat rates)

RATE CATEGORY	MACHINABILITY	CONTAINER PRESORT	PACKAGE PRESORT	PALLET VOLUME	SACK VOLUME	TOTAL VOLUME
Saturation	ECR	ADC/BMC	CR	9,110,897	4,149	9,115,046
Saturation	ECR	3-Digit/SCF	CR	628,327,713	2,070,613	630,398,326
Saturation	ECR	5-Digit	CR	7,099,728,139	10,157,513	7,109,885,652
Saturation	ECR	CRTS	CR	0	351,551,998	351,551,998
Saturation	ECR	CR	CR	0	1,875,884,630	1,875,884,630
TOTAL				**7,737,166,749**	**2,239,668,904**	**9,976,835,653**

RATE CATEGORY	MACHINABILITY	CONTAINER PRESORT	PACKAGE PRESORT	PALLET VOLUME	SACK VOLUME	TOTAL VOLUME
High Density	ECR	ADC/BMC	CR	16,011,473	8,650	16,020,123
High Density	ECR	3-Digit/SCF	CR	773,509,428	17,070	773,526,498
High Density	ECR	5-Digit	CR	927,324,209	12,789	927,336,998
High Density	ECR	CRTS	CR	0	2,797,706	2,797,706
High Density	ECR	CR	CR	0	81,882,272	81,882,272
TOTAL				**1,716,845,110**	**84,718,487**	**1,801,563,597**

RATE CATEGORY	MACHINABILITY	CONTAINER PRESORT	PACKAGE PRESORT	PALLET VOLUME	SACK VOLUME	TOTAL VOLUME
Basic ECR	ECR	ADC/BMC	CR	420,421,744	18,219	420,439,963
Basic ECR	ECR	3-Digit/SCF	CR	7,527,867,512	51,837	7,527,919,349
Basic ECR	ECR	5-Digit	CR	1,159,842,325	37,751,035	1,197,593,360
Basic ECR	ECR	CRTS	CR	0	205,330,833	205,330,833
Basic ECR	ECR	CR	CR	0	50,587,853	50,587,853
TOTAL				**9,108,131,581**	**293,739,777**	**9,401,871,358**

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Table MCS - 8

Standard Mail FY13 Mail Entry Profile Inputs

Point of Deposit		Pounds (000s)	Percent
Origin AO (OAO)	(1)	672	0.01%
Origin SCF (OSCF)	(2)	522,986	6.29%
Origin BMC (OBMC)	(3)	303,678	3.66%
Destination BMC (DBMC)	(4)	1,000,702	12.04%
Destination SCF (DSCF)	(5)	4,846,791	58.34%
Destination DU (DDU)	(6)	1,633,355	19.66%
		8,308,184	**100.00%**

Pieces (Thousands)

Entry Type	Trays on Pallets	Loose Trays	Bundles or Sacks on Pallets	Loose Sacks	Total
Origin AO	-	0	2,079	2,867	4,946
Origin SCF	-	1,115,720	251,221	250,959	1,617,900
Origin ADC	197,833	1,838,877	516,636	304,952	2,858,298
Origin BMC	4,071,771	119,376	386,235	46,511	4,623,893
Destination BMC	7,373,270	1,163,334	2,420,796	26,464	10,983,864
Destination ADC	61,185	310,957	157,797	39,957	569,896
Destination SCF	31,414,148	5,809,477	14,514,801	683,996	52,422,422
Destination DU	637,509	32,469	5,834,250	1,300,854	7,805,082
Total	**43,755,715**	**10,390,210**	**24,083,815**	**2,656,561**	**80,886,301**

Pounds (Thousands)

Entry Type	Trays on Pallets	Loose Trays	Bundles or Sacks on Pallets	Loose Sacks	Total
Origin AO	-	0	450	222	672
Origin SCF	-	48,376	83,511	62,186	194,073
Origin ADC	9,803	80,754	165,980	72,377	328,914
Origin BMC	195,860	4,931	94,296	8,591	303,678
Destination BMC	375,731	56,183	565,366	3,423	1,000,702
Destination ADC	2,420	11,627	31,673	3,452	49,171
Destination SCF	1,428,044	243,907	3,069,946	55,724	4,797,620
Destination DU	69,827	2,949	1,442,170	118,409	1,633,355
Total	**2,081,686**	**448,725**	**5,453,390**	**324,383**	**8,308,184**

(1) Origin AO Total Pounds
(2) Origin SCF Total Pounds + Origin ADC Total Pounds
(3) Origin BMC Total Pounds
(4) Destination BMC Total Pounds + Destination ADC Total Pounds
(5) Destination SCF Total Pounds
(6) Destination DU Total Pounds

MAILCHAR13V.xls

USPS-FY13-14					
Table MCS - 9					
STANDARD MAIL & PERIODICALS MAIL CHARACTERISTICS DATA					
Average Number of Pieces by Container Type					
		Pallet	**Sack**	**Tray**	
	CR	0.00	310.95	227.75	
	CRTS	0.00	144.60	625.19	
	5-Digit	3,454.73	75.32	266.09	
	3-Digit/SCF	3,767.66	106.08	225.52	
	ADC/BMC	2,468.29	92.38	200.15	
	Mixed ADC	0.00	123.99	198.91	
	All Standard Containers	3,501.05	155.16	253.13	
	Periodical Containers	2,286.26	46.91		

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Table MCS - 10					
STANDARD MAIL FLATS MAIL CHARACTERISTICS DATA					
		PALLET	**SACK**	**PALLET**	**SACK**
	RATE CATEGORY	**VOLUME**	**VOLUME**	**CONTAINERS**	**CONTAINERS**
5	Nonauto MADC Presort Flats	734,684	47,709,143	276	394,169
6	Nonauto ADC Presort Flats	1,400,070	25,906,910	647	272,893
7	Nonauto 3 Digit Presort Flats	62,403,535	36,079,022	24,431	359,813
8	Nonauto 5 Digit Presort Flats	114,242,875	11,282,582	40,598	158,479
1	Auto MADC Presort Flats	2,067,528	60,023,509	956	483,309
2	Auto ADC Presort Flats	11,183,855	116,376,133	5,796	1,049,901
3	Auto 3 Digit Presort Flats	836,418,799	666,748,846	326,059	6,589,768
4	Auto 5 Digit Presort Flats	2,861,206,409	706,321,350	883,006	7,679,470
11	Saturation	9,108,131,581	293,739,777	2,471,803	2,574,583
10	High Density	1,716,845,110	84,718,487	479,849	299,429
9	Basic ECR	7,737,166,749	2,239,668,904	2,179,447	7,969,699
	TOTAL	**22,451,801,195**	**4,288,574,663**	**6,412,869**	**27,831,513**

MAILCHAR13V.xls

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Table MCS - 11

PERIODICALS BUNDLE DISTRIBUTION MAIL FLOW DENSITY TABLES SUMMARY

Development Based on FY 13 Mail.dat files

	MADC Bundle	ADC Bundle	3D Bundle	5D Bundle	CR Bundle
MADC Container to:	MADC	ADC	3D	5D	CR
Piece	100.00%	1.66%	2.77%	0.00%	0.00%
ADC		98.34%	95.60%	97.83%	93.92%
3D			1.63%	0.86%	3.54%
5D				1.31%	2.54%
CR					0.00%
	100.00%	100.00%	100.00%	100.00%	100.00%
ADC Container to:					
Piece		100.00%	52.77%	0.00%	0.00%
3D			47.23%	50.08%	54.81%
5D				49.92%	45.19%
CR					0.00%
		100.00%	100.00%	100.00%	100.00%

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Table MCS - 12

BUNDLE DISTRIBUTION MAIL FLOW DENSITY TABLES SUMMARY

Development Based on FY 13 Mail.dat files

	MADC Bundle	ADC Bundle	3D Bundle	5D Bundle	CR Bundle
MADC Container to:	MADC	ADC	3D	5D	CR
Piece	100.00%	1.46%	0.89%		
ADC		98.54%	98.55%	96.44%	96.44%
3D			0.57%	1.69%	1.69%
5D				1.87%	1.87%
CR					0.00%
	100.00%	100.00%	100.00%	100.00%	100.00%
ADC Container to:					
Piece		100.00%	26.78%		
3D			73.22%	95.64%	100.00%
5D				4.36%	
CR					
		100.00%	100.00%	100.00%	100.00%
3D Container to:					
Piece			100.00%		0.00%
5D				100.00%	100.00%
CR					0.00%
			100.00%	100.00%	100.00%
5D Container to:					
Piece				100.00%	0.00%
CR					100.00%
				100.00%	100.00%
CR Container to:					
Piece					100.00%
					100.00%

NOTE: 5-Digit bundles are assumed to be placed in 5-Digit containers in the development of the bundle densities. For use in the model these densities need to be adjusted for IS piece sortation that occurs in the plant.

MAILCHAR13V.xls

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Table MCS - 13

Average Bundle Size of non-5-Digit Containers

Periodicals

	Data	
C-Lev	Sum of Volume	Sum of Bundles
MADC	440,768,039	42,131,947
ADC	449,870,662	40,385,942
3-DIGIT/SCF	4,194,151,431	306,580,697
5-DIGIT	565,607,345	23,560,530
5DCRTS	32,380,851	3,341,453
CR	26,993,826	908,385
Grand Total	5,709,772,154	416,908,954

	5,084,790,132	389,098,586
Average Size	19.30	

Standard

	Data	
Clev	Sum of Pieces	Sum of Bundles
MADC	351,631,256	20,765,261
BMC/ADC	1,985,249,741	90,819,387
3-DIGIT/SCF	12,301,210,889	521,484,327
5-DIGIT	9,534,248,679	173,210,689
5DCRTS	559,680,537	14,616,796
CR	2,008,354,756	29,519,299
Grand Total	26,740,375,858	850,415,760

	14,638,091,886	633,068,976

Coverage Factors 13m.xls

FLATS COVERAGE FACTORS					
Originating					**(1)**
Activity	**Method**	**First-Class**	**Periodicals**	**Standard**	**Source**
Bundle Sorting	APPS	67.36%	62.13%	73.47%	USPS-FY13-14
Bundle Sorting	SPBS / LIPS	29.31%	35.66%	26.53%	USPS-FY13-14
Bundle Sorting	MANUAL	3.33%	2.21%	0.00%	USPS-FY13-14
	TOTAL	**100.00%**	**100.00%**	**100.00%**	
Piece Distribution	AFSM100 Only	92.57%	92.52%	92.18%	USPS-FY13-14
Piece Distribution	UFSM1000 Only	0.52%	0.30%	0.37%	USPS-FY13-14
Piece Distribution	AFSM100 / UFSM1000	6.59%	7.18%	7.45%	USPS-FY13-14
Piece Distribution	Manual	0.32%	0.00%	0.00%	USPS-FY13-14
	Total	**100.00%**	**100.00%**	**100.00%**	
Piece Distribution	ATHS	77.52%	81.48%	81.28%	USPS-FY13-14
Destinating					
Activity	**Method**	**First-Class**	**Periodicals**	**Standard**	**Source**
Bundle Sorting	APPS	51.96%	49.03%	52.43%	USPS-FY13-14
Bundle Sorting	SPBS / LIPS	40.11%	42.58%	40.65%	USPS-FY13-14
Bundle Sorting	Manual	7.93%	8.39%	6.91%	USPS-FY13-14
	TOTAL	**100.00%**	**100.00%**	**100.00%**	
Piece Distribution	AFSM100 Only	89.13%	88.56%	88.20%	USPS-FY13-14
Piece Distribution	UFSM1000 Only	1.60%	2.31%	2.19%	USPS-FY13-14
Piece Distribution	AFSM100 / UFSM1000	7.48%	6.71%	7.09%	USPS-FY13-14
Piece Distribution	Manual	1.79%	2.41%	2.52%	USPS-FY13-14
	TOTAL	**100.00%**	**100.00%**	**100.00%**	
Piece Distribution	ATHS	72.65%	69.74%	69.67%	USPS-FY13-14

III. PROGRAM DOCUMENTATION

1. Preparation of the Standard Mail Characteristics.

The following programs aggregate Standard Mail mail.dat files from the PostalOne! eVS system by stratum; weight strata by PostalOne! using the mailing statement data program; and control estimates by shape and rate element, to produce estimates of containers, bundles and pieces by container type, container presort level, container entry point, bundle presort level, piece barcode status, and piece machinability.

Program: **roll_to_rr_2013.f;** – FORTRAN Program that aggregates eVS mail.dat and sample by stratum and weights observations using the PostalOne! mailing statement data to produce disaggregated national estimates.

Subroutines:

get_maps.f
ave_bundle.f
ave_con.f
ave_par.f
check_rec.f
results.f

Input: **ContainerTable.txt** - Summary container characteristics by job/observation ID.
PackageTable.txt- Summary package characteristics by job/observation ID.
RateTable.txt – Summary rate characteristics by job/observation ID.
MCSBun.prn – Map of mail.dat bundle level code to estimated level code.
MCSent.prn - Map of mail.dat entry code to estimated entry code.
MCSLevel.prn – Map of mail.dat container level to estimated container level code.
MCSType.prn – Map of mail.dat container type code to estimated container type code.
RPW2012Q*.prn – Standard Mail piece control values by shape, presort level and entry discount.
map2012.txt – Listing of jobs/observations.
Mcs12.txt.rr – PostalOne! Standard Mail commercial rate mailing statement weights by strata, presort rate level and entry discount.
Mcs12.txt.np - PostalOne! Standard Mail nonprofit mailing statement weights by strata, presort rate level and entry discount.

Output: **Chars.txt.R*** - Estimates of Standard Mail commercial rate pieces and bundles by container type, container presort level, container entry facility type, parent container type, parent container level,

parent container entry, bundle presort level, presort rate element, machinability, and barcode status.
Chars.txt.N* - Estimates of Standard Mail nonprofit rate pieces and bundles by container type, container presort level, container entry facility type, parent container type, parent container level, parent container entry, bundle presort level, presort rate element, machinability, and barcode status.
constats.txt.R* – Estimates of Standard mail commercial rate containers by container type, container level and container entry facility type.
constats.txt.N*– Estimates of Standard mail nonprofit rate containers by container type, container level and container entry facility type.

2. Preparation of the Periodicals Mail Characteristics.

The following programs aggregate Periodicals Mail mail.dat files from the PostalOne! eVS system by stratum; weight strata by PostalOne! using mailing statement data program; and control estimates by shape and rate element, to produce estimates of containers, bundles and pieces by container type, container presort level, container entry point, bundle presort level, piece barcode status, and piece machinability.

Program: **roll_to_per13.f;** – FORTRAN programs that aggregate eVS mail.dat and sample observations from LR-L-92 by stratum and weights observations using the PostalOne! mailing statement data to produce disaggregated national estimates

Subroutines:
get_maps.f
ave_bundle.f
ave_con.f
ave_par.f
check_rec.f
results.f

Input: **ContainerTable.12.txt** - Summary container characteristics by job/observation ID.
PackageTable.12.txt- Summary package characteristics by job/observation ID.
RateTable.12.txt – Summary rate characteristics by job/observation ID.
MCSBun.prn – Map of mail.dat bundle level code to estimated level code.
MCSent.prn - Map of mail.dat entry code to estimated entry code.
MCSLevel.prn – Map of mail.dat container level to estimated container level code.

MCSType.prn – Map of mail.dat container type code to estimated container type code.
RPWq*2012.prn – Periodicals flats control volumes by presort rate element and subclass.
pubs.12.draw – Map of observed publication numbers, shape, publication sample weight and subclass.
pubpieces_bypub_fy12.csv – PostalOne! Periodicals 3541 postage statement data by publication number.
p1pub11.srt - map of PostalOne! eVS publications.
pubtorate.txt – Map of the universe of publications and subclass.

Output: **Chars.txt.C*, Chars.txt.N*, Chars.txt.R*** - Estimates of Periodicals Outside County flat-shaped pieces and bundles by container type, container presort level, container entry facility type, parent container type, parent container level, parent container entry, bundle presort level, presort rate element, machinability, and barcode status.
constats.txt.C*, constats.txt.N* , constats.txt.R* – Estimates of Periodicals Outside County flat-shaped mail containers by container type, container level and container entry facility type.

Program control_fss.f – Fortran program to control initial estimates to billing determinants.

Input: **Chars.txt.CL, Chars.txt.NP, Chars.txt.RR** - Estimates of Periodicals Outside County flat-shaped pieces and bundles by container type, container presort level, container entry facility type, parent container type, parent container level, parent container entry, bundle presort level, presort rate element, machinability, and barcode status.
constats.txt.CL, constats.txt.NP , constats.txt.RR – Estimates of Periodicals Outside County flat-shaped mail containers by container type, container level and container entry facility type.

C*bd.prn,R*bd.prn,N*bd.prn – Billing determinant values

Output: **Chars.inf.C*, Chars.inf.N*, Chars.inf.R*** - Controlled estimates of Periodicals Outside County flat-shaped pieces and bundles by container type, container presort level, container entry facility type, parent container type, parent container level, parent container entry, bundle presort level, presort rate element, machinability, and barcode status.
constats.inf.C*, constats.inf.N* , constats.inf.R* – Controlled estimates of Periodicals Outside County flat-shaped mail containers by container type, container level and container entry facility type.

3. Preparation of the First-Class Mail Characteristics.

The following set of Microsoft Excel workbooks documents the development of the FY 2013 containerization and bundling estimates of First-Class Mail Presort nonautomation letters and cards; presort flats; automation carrier route letters; and automation carrier route cards. These estimates rely on the methodology and data collected and documented in Docket No. R2006-1, USPS-LR-L-32 and differ only in the use of FY 2013 control values.

Workbook: **NonAutoLetters.xls** – Inflation of nonautomation letter survey observations. Distribution of estimates for unknown tray type, package type. Estimation of unknown package sizes.

Input: First-Class MCS Data Entry.mdb.

Workbook: **NonAutoLetters.xls** – Inflation of nonautomation letter survey observations. Distribution of estimates for unknown tray type, package type. Estimation of unknown package sizes.

Input: First-Class MCS Data Entry.mdb.

Workbook: **NonAutoCards.xls** – Inflation of nonautomation card survey observations. Distribution of estimates for unknown tray type, package type. Estimation of unknown package sizes.

Input: First-Class MCS Data Entry.mdb.

Workbook: **NonAutoFlats.xls** – Inflation of nonautomation flat survey observations. Distribution of estimates for unknown tray type, package type. Estimation of unknown package sizes.

Input: First-Class MCS Data Entry.mdb.

Workbook: **AutoCRLetters.xls** – Inflation of automation carrier route letter survey observations. Distribution of estimates for unknown tray type and package type. Estimation of unknown package sizes.

Input: First-Class MCS Data Entry.mdb.

Workbook: **AutoCRCards.xls** – Inflation of automation carrier route card survey observations. Distribution of estimates for unknown tray type and package type. Estimation of unknown package sizes.

Input: First-Class MCS Data Entry.mdb.

Workbook: **AutoFlats.xls** – Inflation of automation flat survey observations. Distribution of estimates for unknown tray type and package type. Estimation of unknown package sizes.

Input: First-Class MCS Data Entry.mdb.

Workbook: **Inflation Controls.xls** – Computation of office sample inflation factors. Computation of the number of observations inflation factor. Computation of control factor to adjust inflated survey estimates to annual RPW pieces.

Input: Simulated sampling frequencies.
jan10_post1.txt.
Class MCS Data Entry.mdb.
RPW Volumes by rate element.
Links: **NonAutoLetters.xls, NonAutoCards.xls, NonAutoFlats,xls, AutoCRLetters.xls, AutoCRCards.xls, AutoFlats.xls**

Workbook**: ResultsTables.xls** Assembles estimates into report tables.

4. Preparation of First-Class Mail RPW by Shape and Indicia.

The following set of FORTRAN programs and Microsoft Excel workbooks documents the development of the FY 2013 First-Class Mail volumes by shape and indicia.

Summarization of Data

Program: **perrolln_13.f** Aggregates and checks the validity of PostalOne! transaction records. Maintains detail by ounce increment up to 16 ounces.

Input: strata8.q{qtr}.map.
vipmap.1st.13.
ratetable.11apr.
ratetable.12jan.
ratetable.13jan.
PostalOne! mailing statement database.
Output: perrolln.1st.{mo}.

Program: **cbcis_roll_8.f** - Aggregates first class CBCIS system records to strata, vipcode, and transaction type.

Input: strata8.q{qtr}.map.
vip_first13.map.
cbcis database.
pcm_1c_strata_cbcis_q{qtr}2013.
pcm_1c_strata_q{qtr}2013.
a41416_strata_q{qtr}.2013.
Output: factors_sm_qtr{qtr}.txt.

Program: **control_shape.f** -Inflates the PostalOne! data using the stratification revenue files. Creates a file by VIP code and ounce increment for revenue, pieces, and weight. Estimates and distributes weight for unknown weight transactions.

Input: factors_sm_qtr{qtr}.txt.
tnctbstr.eoy.dat.
pnctbstr.eoy.dat.
rates.13jan.
perrolln.1st.{mo}.
Output:indicia13q4.csv.
distkey.1st_q4.txt.

Workbook: **IndShape{quarter}.xls** – Final distribution to shape and indicia and control to official RPW First-Class Mail values.

Input: indicia12q4.csv.
RPW tables.

5. Preparation of Periodicals RPW by Shape.

The following set of FORTRAN programs and Microsoft Excel workbooks document the development of the FY 2012 Periodicals volumes by shape and indicia.

Program: **Post1_per_qtr.f**- Rolls up PostalOne! mailing statement data by subclass, VIP code, finance number and shape and then inflates to trial balance revenues.

Subroutine: inflate_quarter.f
Input: fins.
rates.srt2.
rates051109.srt.
rates051208.srt.
vips.prdcl.new2.
PostalOne! mailing statement database.
Stratamap_2012.prn.
strata.41310.
strata.41316.
Output: good.all.inflated.q{quarter}.r.

Workbooks: **Periodicals Shape {quarter}r.xls**- Distribute official revenue, pieces, and weight estimates to shape.

Input: good.all.inflated.{quarter}r.
RPW tables.

6. Preparation of Standard Mail RPW by Shape.

Program: **std_shape_13.f** - Aggregates PostalOne! Standard mail data by stratum, VIP, shape, and weight increment and month

Input: lead_strata_reg7.map, lead_strata_np7.map – Map of PostalOne! finance numbers and stata.
VIPSR2013.prn(Regular Rate), VIPSNP2013.prn - Map of VIP codes and rates.
PostalOne! mailing statement database.
Output: pmt_std.wi.{month}.

Program: **eststda_13.f** - Inflates the PostalOne! data using the stratification revenue files. Creates a file by RPW mail category code and ounce increment for revenue, pieces, and weight. Estimates and distributes weight for unknown weight transactions.

Input: lead_strata_reg7.map,lead_strata_np7.map.
VIPSR2013.prn/VIPSNP2013.prn .
pmt_std.wi.[month].
Strata.41411.sort.
strata.41411 (Regular),strata.41414(Nonprofit).

Output: stda.{quarter].csv.